

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 12, 2003, 19:35:59 ; Search time 233 Seconds
(without alignments)
869.871 Million cell updates/sec

Title: US-09-910-757-1

Perfect score: 90

Sequence: 1 gggagacggcggtggtggc.....cggtgccccgcgcagggtcg 90

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N_Geneseq_101002.*
1: /SID22/gcgdata/geneseq/geneseq-emb1/NA1980.DAT.*
2: /SID22/gcgdata/geneseq/geneseq-emb1/NA1981.DAT.*
3: /SID22/gcgdata/geneseq/geneseq-emb1/NA1982.DAT.*
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8: /SID22/gcgdata/geneseq/geneseq-emb1/NA1987.DAT.*
9: /SID22/gcgdata/geneseq/geneseq-emb1/NA1988.DAT.*
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11: /SID22/gcgdata/geneseq/geneseq-emb1/NA1990.DAT.*
12: /SID22/gcgdata/geneseq/geneseq-emb1/NA1991.DAT.*
13: /SID22/gcgdata/geneseq/geneseq-emb1/NA1992.DAT.*
14: /SID22/gcgdata/geneseq/geneseq-emb1/NA1993.DAT.*
15: /SID22/gcgdata/geneseq/geneseq-emb1/NA1994.DAT.*
16: /SID22/gcgdata/geneseq/geneseq-emb1/NA1995.DAT.*
17: /SID22/gcgdata/geneseq/geneseq-emb1/NA1996.DAT.*
18: /SID22/gcgdata/geneseq/geneseq-emb1/NA1997.DAT.*
19: /SID22/gcgdata/geneseq/geneseq-emb1/NA1998.DAT.*
20: /SID22/gcgdata/geneseq/geneseq-emb1/NA1999.DAT.*
21: /SID22/gcgdata/geneseq/geneseq-emb1/NA2000.DAT.*
22: /SID22/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT.*
23: /SID22/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT.*
24: /SID22/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	90	100.0	90	20	AAV72377
2	90	100.0	1721	14	AAQ54257
3	90	100.0	3353	9	AAAN81234
4	90	100.0	3353	12	AAQ14097
5	90	100.0	3353	14	AAQ54258
6	90	100.0	3353	21	AA249951
7	90	100.0	3354	20	AA232219
8	90	100.0	3354	21	AA289477
9	90	100.0	3414	23	AA583274

10	90	100.0	3585	23	AA583273	DNA encoding novel
11	90	100.0	3621	23	ABV29298	Human prostate exp
12	90	100.0	3648	23	AA583276	DNA encoding novel
13	90	100.0	8591	18	AA787083	Plasmid pCLL602 en
14	90	100.0	8591	18	AA787084	Plasmid pCLL621 en
15	90	100.0	8591	18	AA784561	Plasmid pCLL602 en
16	90	100.0	8591	18	AA784562	Plasmid pCLL621 en
17	90	100.0	8591	19	AAV05849	APP-REP 751 gene f
18	90	100.0	8591	19	AAV05850	APP-REP 751 gene f
19	90	100.0	8591	19	AAV04865	CDNA encoding amy1
20	90	100.0	8591	19	AAV04866	CDNA encoding amy1
21	89	98.9	3353	11	AAQ04496	Sequence of gene e
22	88.4	98.2	3148	24	AA747324	Amyloid precursor
23	88.4	98.2	3148	24	ABK13303	DNA encoding amylo
24	88.4	98.2	3238	23	AA583275	DNA encoding novel
25	88.4	98.2	3520	20	AA77504	Human beta-amyloid
26	81.2	90.2	255	22	AA77504	Human APP exon 1 p
27	66	73.3	500	24	ABQ32436	Oligonucleotide fo
28	66	73.3	500	24	ABQ32437	Oligonucleotide fo
29	66	73.3	507	24	ABQ32766	Oligonucleotide fo
30	66	73.3	507	24	ABQ32767	Oligonucleotide fo
31	66	73.3	1286	24	ABL34250	Human immune syste
32	51.8	57.6	500	24	ABQ32434	Oligonucleotide fo
33	51.8	57.6	500	24	ABQ32435	Oligonucleotide fo
34	51.8	57.6	507	24	ABQ32768	Oligonucleotide fo
35	51.8	57.6	507	24	ABQ32769	Oligonucleotide fo
36	51.8	57.6	1286	24	ABL34251	Oligonucleotide fo
37	50	55.6	596	12	AAQ11374	Human immune syste
38	50	55.6	3804	12	AAQ11434	Amyloid precursor
39	45	50.0	2949	10	AAAN1050	Sequence encoding
40	45	50.0	2949	11	AAQ05086	Sequence encoding N
41	45	50.0	3006	10	AAAN1049	Sequence encoding
42	45	50.0	3006	11	AAQ05085	Sequence encoding N
43	37	41.1	156	22	AAQ13971	Rat amyloid precu
44	34.2	38.0	495	21	AAA39492	Human APP intron,
45	34.2	38.0	1772	21	AAA39494	Transgenic unc-119

ALIGNMENTS

RESULT 1

AAV72377

ID AAV72377 standard; cDNA; 90 BP.

XX

AC AAV72377;

XX

DT 02-AUG-1999 (first entry)

XX

DE Human amyloid precursor gene translation enhancer element cDNA.

XX

KW APP; amyloid precursor protein; translation enhancer element;

XX

KW treatment; Alzheimer's disease; suppressor; ss.

XX

OS Homo sapiens.

XX

PN WO9924595-A1.

XX

PD 20-MAY-1999.

XX

PF 09-NOV-1998; 98WO-US23873.

XX

PR 12-NOV-1997; 97US-0065175.

XX

FA (BGHM) BRIGHAM & WOMENS HOSPITAL.

XX

FI Rogers J;

XX

DR WPI; 1999-347284/29.

XX

PT Enhancing translation of the human amyloid precursor protein (APP)

XX gene, using a substantially pure DNA molecule

- (2) APC precursor protein or its functional equivalents and fragments;
- (3) antibodies directed against this protein (or fragments); and
- (4) oligo probes derived from this DNA sequence.

A pref. fragment of the sequence extends from approx. base 600-900; it includes an unusually high proportion of acidic AAs plus a sequence of 7 Thr residues (bases 819-840), making it a very specific probe for hybridisation testing. The pref. antigenic sequence for raising Abs contains AAs 200-230 of the precursor polypeptide. The DNA sequence and fragments and antibodies are useful for diagnosis of Alzheimer's disease (even before clinical symptoms develop).

```

SQ Sequence 3353 bp; 922 A; 745 C; 867 G; 819 T; 0 other;

Query Match      100.0%; Score 90; DB 9; Length 3353;
Best Local Similarity 100.0%; Pred. No. 2.5e-14;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGAGACGGCGCGGTGGCGCGCGGACAGCAAGGACGCGGCGGATCCACATCGCACA 60
   |||||
DB 55 GGAGAGACGGCGCGGTGGCGCGCGGACAGCAAGGACGCGGCGGATCCACATCGCACA 114
   |||||

QY 61 GCAGCGCACTCGGTGCCCGCGCGGAGGTGC 90
   |||||
DB 115 GCAGCGCACTCGGTGCCCGCGCGGAGGTGC 144
   |||||

```

RESULT 4	
AAQ14097	
ID	AAQ14097 standard; cDNA; 3353 BP.
XX	
AC	AAQ14097;
XX	
XX	06-JAN-1992 (first entry)
DT	
XX	
XX	
DE	Amyloid precursor protein coding sequence cloned in pFC4.

APP-695; minigene; senile dementia; ss.
KW

OS Homo sapiens.

Key	Location/Qualifiers
FH	147..2234
FT	/*tag= a
FT	/product= App-695
FT	

PN EP451700-A.

16-OCT-1991.

04-APR-1991; 91EP-0105332.

20-FEB-1991: 91PS-0656348

PR 10-APR-1990; 90US-0507705.
XX

PA (MILE) MILES INC.

PI Wirak DO, Bayney R, Ramabhadran TV, Unterbeck A, Rae P;
PI Scangos G;

WPI: 1991-304748/42

OR P-PSDB; AAR14046.

Recombinant mini-gene expressing amyloid precursor protein - in cell and tissue specific manner in transgenic mice, as models for Alzheimer's disease

Example 3; Page 58 and f 1; 135pp; English.

Plasmid pFC4 was isolated from a cDNA library prepared from polyA⁺ RNA from brain cortex of a 5-month old aborted human foetus. Three probes were used for screening. The sequence of pFC4 corresponds to a full-length APP-695 coding sequence and is identical to the nucleotide sequence obtained as clone 9-110 by Kang et al., 1987.

CC Nature 325:733-736. A 1.4kb BamHI fragment of pFC4 was used to
CC screen a human neuroblastoma library for other APP genes.
CC See also AAQ13774-9.

SQ Sequence 3353 BP; 922 A; 745 C; 867 G; 819 T; 0 other;

Query Match 100.0%; Score 90; DB 12; Length 3353;
Best Local Similarity 100.0%; Pred. No. 2.5e-14;
Matches 90; Conservative 0; Mismatches 0; Indels 0

1 GGGAGAGCGCGCGGTGCGCGCGGGCAGACGAGGACGCGCGGATCCCACTCGCACA 60
55 GGGAGACGCGCGCGGTGCGCGCGGGCAGACGAGGACGCGCGGATCCCACTCGCACA 114
61 GCACGCACTCGGTGCCCGCGCAGGGTCG 90
115 GCACGCACTCGGTGCCCGCGCAGGGTCG 144

RESULT. 5

AAQ54258
ID AAQ54258 standard; DNA; 3353 BP.

AA
AC
AA054258:

DT 20-JUN-1994 (first entry)

XX
DE Amyloid precursor protein (APP 770) coding sequence.

KW Amyloid precursor protein; APP; beta amyloid protein; BAP;
KW detection; Alzheimer's disease; Down's syndrome; ss.

Homo sapiens.

XX
PN AU9338358-A.

XX PD 04-NOV-1993.

XX
PF
03-MAY-1993; 93AU-0038358.XX
PR 01-MAY-1992: 92US-0877675

XX PA (AMCY) AMERICAN CYANAMID CO

XX PI Jacobsen JS, Vitek MP:

XX
DR WPI: 1993-406194/51

XX New mutant forms of amyloid precursor protein - for detecting
PT cpds. that modify activity of enzymes involved in precursor
PT cleavage, also new nucleic acid encoding them

PS Claim 5; Figure 8; 66pp; English.

Recombinant polypeptides produced using the coding sequences of mutant forms of amyloid precursor proteins comprising from the 5' to the 3' end a sequence encoding a marker and either (1) a sequence encoding the N-terminus of an amyloid precursor protein (APP) up to, but not including, the nucleotides encoding the beta amyloid protein (BAP) domain or (2) the BAP domain, can be used to detect drugs or compounds that inhibit/augment the activity of proteolytic enzymes which cleave APP to generate BAP fragments (deposition of which occurs in patients with Alzheimers disease and Down's syndrome).

Sequence 3353 BP; 922 A; 745 C; 868 G; 818 T; 0 other;

```
Query Match 100.0%; Score 90; DB 14; Length 3353;
Best Local Similarity 100.0%; Pred. No. 2.5e-14;
Matches 90; Conservative 0; Mismatches 0; Indels 0
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Qy 1 GGGAGCGCGGGGTGGGGCGGGGCGAGCAAGGACGGCGGGATCCCATCGCAC 60
|||
Db 55 GGGAGCGCGGGCGGTGGCGCGGGGCGAGCAAGGACGGCGGGATCCCATCGCAC 110
|||

```
QY 61 GCAGCGCACTCGGTGCGCGCGCGGCGAGGACGAGCGGCGGATCCCACTCGCACA 60
Db 115 GCGAGCGCGCGGTGCGCGCGCGGCGAGGACGAGCGGCGGATCCCACTCGCACA 114

RESULT 6
AAZ49951
ID AAZ49951 standard; cDNA; 3353 BP.
XX
AC AAZ49951;
XX
DT 25-APR-2000 (first entry)
XX
DE Human beta amyloid precursor protein cDNA.
XX
KW Beta-amyase precursor protein; beta-APP; neuronal protein;
KW human lon-protease like protein; HsLON; diagnosis; treatment;
KW neurodegenerative disorder; Alzheimer's disease; dementia of trisomy 21;
KW Parkinson's disease; amyotrophic lateral sclerosis; cardiomyopathy;
KW diabetes; hearing loss; male infertility; gene therapy;
KW mitochondrial DNA mutation disorder; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 147..2234
FT FT /*tag= a
FT FT /product= "Beta amyloid precursor protein"
FT FT 1935..2060
FT FT /*tag= b
FT FT /label= Beta_A4
FT FT /note= "Bait sequence that interacts with prey
FT FT protein HsLON"
XX
PN WO200002911-A2.
XX
XX 20-JAN-2000.
XX
XX 08-JUL-1999; 99WO-US15592.
XX
XX 10-JUL-1998; 98US-0113348.
XX
XX (CURA-) CURAGEN CORP.
XX
XX Nandabalan K, Yang M, Schulz VP;
XX
XX WPI; 2000-171130/15.
XX
XX P-PSDB; AAY44705.
XX
XX Screening for interactions between human beta amyloid precursor protein
XX and human lon-protease like protein, useful for treating
XX neurodegenerative disease -
XX
XX Example 1; Fig 1; 69pp; English.
XX
XX The present sequence encodes beta-amyase precursor protein (beta-APP),
XX a neuronal protein. complex formed by the interaction of beta-APP and
XX the human lon-protease like protein (HsLON) may serve as a marker for
XX specific disease states that involve the disruption of physiological
XX processes in which beta-APP and HsLON are known to be involved. Methods
XX of screening for these complexes are used in diagnosis and treatment of
XX diseases like neurodegenerative disorders such as Alzheimer's disease,
XX dementia of trisomy 21, Parkinson's disease, amyotrophic lateral
XX sclerosis; cardiomyopathy; diabetes; hearing loss; male infertility; and
XX disorders associated with mitochondrial DNA mutations. The nucleic acid
XX sequence may be used for gene therapy.
XX
XX Sequence 3353 BP; 922 A; 745 C; 867 G; 819 T; 0 other;
XX
XX Query Match 100.0%; Score 90; DB 21; Length 3353;
XX Best Local Similarity 100.0%; Pred. No. 2.5e-14;
XX Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGAGCGCGCGGTGCGCGCGGCGAGGACGAGCGGCGGATCCCACTCGCACA 60
Db 55 GCGAGCGCGCGGTGCGCGCGGCGAGGACGAGCGGCGGATCCCACTCGCACA 114

QY 61 GCAGCGCACTCGGTGCGCGCGCGGCGAGGTCG 90
Db 115 GCAGCGCACTCGGTGCGCGCGCGGCGAGGTCG 144

RESULT 7
AAZ32219
ID AAZ32219 standard; cDNA; 3354 BP.
XX
AC AAZ32219;
XX
DT 13-JAN-2000 (first entry)
XX
DE Human beta amyloid precursor protein encoding cDNA.
XX
KW Human; beta amyloid precursor protein; APP; beta secretase inhibition;
KW alpha secretase; neurological disorder; Alzheimer's disease;
KW Down syndrome; mutation; ss.
XX
XX Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 148..2235
FT FT /*tag= a
FT FT /product= "beta amyloid precursor protein"
XX
XX WO9951752-A1.
XX
XX 14-OCT-1999.
XX
XX 31-MAR-1999; 99WO-JP01701.
XX
XX 31-MAR-1998; 98JP-0101821.
XX
XX (CHUS ) CHUGAI SEIYAKU KK.
XX
XX Ozawa K, Ikeda S, Tabira T;
XX
XX WPI; 1999-620208/53.
XX
XX P-PSDB; AAY49690.
XX
XX A cell line which produces beta amyloid precursor protein, used in the
XX investigation of neurological disorders such as Alzheimer's disease -
XX
XX Disclosure; Page 35-41; 70pp; Japanese.
XX
XX The present invention describes a cell line which produces beta amyloid
XX precursor protein (APP) and expresses alpha secretase activity but
XX expresses beta secretase activity only under an external stimulus.
XX Also described is a cloning method for DNA encoding beta secretase,
XX comprising: (1) inserting a DNA library into the cell line, expressing
XX the inserted DNA, and selecting cells expressing beta secretase then
XX isolating the beta secretase DNA from them; or (2) isolating nucleic
XX acid from the cell line with or without external stimulation and
XX performing subtractive cloning to identify DNA expressed only under
XX stimulation. Products from the present invention may be used in the
XX investigation of neurological disorders such as Alzheimer's disease
XX and Down syndrome and in particular the association of mutations of
XX the beta APP with them. The present sequence encodes human beta APP.
XX
XX Sequence 3354 BP; 922 A; 745 C; 868 G; 819 T; 0 other;
XX
XX Query Match 100.0%; Score 90; DB 20; Length 3354;
XX Best Local Similarity 100.0%; Pred. No. 2.5e-14;
XX Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGAGCGCGCGGTGCGCGCGGCGAGGACGAGCGGCGGATCCCACTCGCACA 60
Db 115 GCGAGCGCGCGGTGCGCGCGGCGAGGACGAGCGGCGGATCCCACTCGCACA 114
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Db 56 GGGAGACGGCGGTGGTGGCGCGGCGGACAGCAAGGACGGCGGATCCACTCGCAC 115
QY 61 GCAGCGCACTCGGTGGTGGCGCGGCGGACGGGTGC 90
Db |||||
116 GCAGCGCACTCGGTGGTGGCGCGGCGGACGGGTGC 145

RESULT 8
AAZ89477
ID AAZ89477 standard; DNA; 3354 BP.
XX
AC AAZ89477;
XX
DT 22-JUN-2000 (first entry)
XX
DE Human APP DNA.
XX
KW APP; amyloid precursor protein; gamma-secretase; neuroprotective;
KW nootropic; transgenic; Alzheimer's disease; Down's syndrome; human; ds.
XX
OS Homo sapiens.
XX
PN DE19856261-C1.
XX
PD 30-MAR-2000.
XX
PF 07-DEC-1998; 98DE-1056261.
XX
PR 07-DEC-1998; 98DE-1056261.
XX
PA (HMRI) HOECHST MARION ROUSSEL DEUT GMBH.
XX
PI Peraus G;
XX
DR WPI; 2000-258119/23.
XX
PT Detection of gamma-secretase by detection of A-beta peptide useful for
PT determining gamma-secretase activity and for identifying inhibitors .
XX
PS Disclosure; Page 9; 16pp; German.
XX
CC This invention describes a novel method for the detection of human
CC gamma-secretase by detection of a partial protein formed by cleavage of
CC a fusion protein encoded by a transgene containing a first nucleotide
CC sequence which encodes a protein comprising the amino acid sequence (A)
CC and a second nucleotide sequence which encodes a signal peptide. The
CC products of the invention have neuroprotective and nootropic activity.
CC The method is used to detect activity of gamma-secretase. The transgene
CC and/or vectors are useful for the production of a transgenic cell or
CC C. elegans. Transgenic C. elegans is useful in a method for the
CC determination of gamma-secretase activity. The transgenic C. elegans is
CC also useful in a method to identify inhibitors of the gamma-secretase
CC activity. The methods and transgenes are useful in research of
CC Alzheimer's disease. Inhibitors of gamma-secretase are useful in
CC control/treatment of Alzheimer's and possibly Down's syndrome. This
CC sequence encodes the human amyloid precursor protein (APP) which is
CC described in the method of the invention.
XX
SQ Sequence 3354 BP; 922 A; 745 C; 868 G; 819 T; 0 other;

Query Match 100.0%; Score 90; DB 21; Length 3354;
Best Local Similarity 100.0%; Pred. No. 2.5e-14;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGACGGCGGTGGTGGCGCGGCGGACAGCAAGGACGGCGGATCCACTCGCAC 60
Db |||||
56 GGGAGACGGCGGTGGTGGCGCGGCGGACAGCAAGGACGGCGGATCCACTCGCAC 115

QY 61 GCAGCGCACTCGGTGGTGGCGCGGCGGACGGGTGC 90
Db |||||
116 GCAGCGCACTCGGTGGTGGCGCGGCGGACGGGTGC 145

RESULT 9
AAS83274
ID AAS83274 standard; cDNA; 3414 BP.
XX
AC AAS83274;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #19078.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR -31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI; 2001-639362/73.
DR P-PSDB; ABG19087.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity .
XX
PS Claim 1; SEQ ID No 19078; 103pp; English.
XX
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 3414 BP; 915 A; 806 C; 940 G; 753 T; 0 other;

Query Match 100.0%; Score 90; DB 23; Length 3414;
Best Local Similarity 100.0%; Pred. No. 2.5e-14;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGACGGCGGTGGTGGCGCGGCGGACAGCAAGGACGGCGGATCCACTCGCAC 60
Db |||||
608 GGGAGACGGCGGTGGTGGCGCGGCGGACAGCAAGGACGGCGGATCCACTCGCAC 667

QY 61 GCAGCGCACTCGGTGGTGGCGCGGCGGACGGGTGC 90
Db |||||
668 GCAGCGCACTCGGTGGTGGCGCGGCGGACGGGTGC 697

Db 2301 GGGAGACGGCGCGGTGGCGCGGAGAGCAAGGACGCGGGGATCCACTCGCACA 2360
QY 61 GCAGCGCACTCGGTGCGCGCGCGCGGAGGTCG 90
Db 2361 GCAGCGCACTCGGTGCGCGCGCGGAGGTCG 2390

RESULT 14

AAT87084
ID AAT87084 standard; cDNA; 8591 BP.
XX
AC AAT87084;
XX
DT 06-JAN-1998 (first entry)
XX
DE Plasmid pCLL621 encoding amyloid precursor protein APP-REP 751.
XX
KW Amyloid precursor protein; APP; beta-amyloid protein; BAP;
KW substrate; mutasein; secretase; Alzheimer's disease; human;
KW APP-REP 751; pCLL621; ds; cyclic.
XX
OS Chimeric Homo sapiens.
OS Chimeric synthetic.

XX Key Location/Qualifiers
FH 2393..3856
FT /*tag= a
FT CDS

XX US5656477-A.

XX 12-AUG-1997.

XX 01-MAY-1992; 92US-0877675.

XX 20-SEP-1993; 93US-0123659.

XX 01-MAY-1992; 92US-0877675.

XX (AMCY) AMERICAN CYANAMID CO.

XX Jacobsen JS, Vitek MP;

XX WPI; 1997-414594/38.

XX P-PSDB; AAW26510.

XX Nucleic acid encoding amyloid precursor muten(s) - comprising
PT reporter gene and coding sequence, for identifying compounds which
PT modify the activity of proteolytic enzymes which cleave APP

XX Disclosure; Fig 8; 84pp; English.

XX Plasmid pCLL621 (AAT87084), deposited in E. coli as ATCC 69406,
CC codes for an amyloid precursor protein (APP) substrate, designated
CC APP-REP 751 (see AAW26510), that has a 276-amino acid deletion of the
CC native APP and carries a Substance P epitope marker on the N-terminal
CC side of the beta-amyloid protein (BAP) domain. APP-REP 751 can
CC be used in a claimed method for screening for a compound which
CC reduces the formation of beta-amyloid protein, determined by
CC measuring the amount of marker in a medium containing transfected
CC cells. The method is used to detect compounds which inhibit the
CC activity of proteolytic enzymes which cleave APP to generate BAP
CC fragments. Such compounds can be used in the treatment of e.g.
CC Alzheimer's disease. The deletion of a 276 amino acid portion of
CC APP distinguishes the construct from endogenously expressed APP,
CC and beneficially increases the resolution of APP-REP fragments
CC resulting from the proteolytic cleavage by secretase or other
CC amyloidogenic, BAP-generating cleavage events.

XX Sequence 8591 BP; 2225 A; 2038 C; 2247 G; 2081 T; 0 other;

XX Query Match

XX Best Local Similarity 100.0%; Score 90; DB 18; Length 8591;

XX Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGACGGCGCGGTGGCGCGGAGAGCAAGGACGCGGGGATCCACTCGCACA 60
Db 2301 GGGAGACGGCGCGGTGGCGCGGAGAGCAAGGACGCGGGGATCCACTCGCACA 2360
QY 61 GCAGCGCACTCGGTGCGCGCGCGGAGGTCG 90
Db 2361 GCAGCGCACTCGGTGCGCGCGCGGAGGTCG 2390

RESULT 15

AAT84561
ID AAT84561 standard; cDNA; 8591 BP.
XX
AC AAT84561;

XX 15-DEC-1997 (first entry)

XX Plasmid pCLL602 encoding amyloid precursor protein APP-REP 751.
XX
KW Amyloid precursor protein; APP; beta-amyloid protein; BAP;
KW substrate; mutasein; secretase; Alzheimer's disease; human;
KW APP-REP 751; pCLL602; ds; cyclic.

XX Chimeric Homo sapiens;

XX Chimeric synthetic.

XX Key Location/Qualifiers
FH 2393..3871
FT /*tag= a
FT CDS

XX US5652092-A.

XX 29-JUL-1997.

XX 01-MAY-1992; 92US-0877675.

XX 20-SEP-1993; 93US-0123659.

XX 01-MAY-1992; 92US-0877675.

XX 05-JUN-1995; 95US-0462859.

XX (AMCY) AMERICAN CYANAMID CO.

XX Jacobsen JS, Vitek MP;

XX WPI; 1997-392937/36.

XX P-PSDB; AAW26393.

XX Screening for compounds which reduce beta-amyloid protein formation
PT - using cells which express a construct encoding a marker and an
PT amyloid precursor muten derived from APP isoforms

XX Disclosure; Fig 7; 84pp; English.

XX Plasmid pCLL602 (AAT84561), deposited in E. coli as ATCC 69405,
CC codes for an amyloid precursor protein (APP) substrate, designated
CC APP-REP 751 (see AAW26393), that has a 276-amino acid deletion of the
CC native APP and carries Substance P and Met-enkephalin epitope
CC markers placed, respectively, on the N-terminal and C-terminal
CC sites of the beta-amyloid protein (BAP) domain. APP-REP 751 can
CC be used in a claimed method for screening for a compound which
CC reduces the formation of beta-amyloid protein, determined by
CC measuring the amount of marker in a medium containing transfected
CC cells. The method is used to detect compounds which inhibit the
CC activity of proteolytic enzymes which cleave APP to generate BAP
CC fragments. Such compounds can be used in the treatment of e.g.
CC Alzheimer's disease. The deletion of a 276 amino acid portion of
CC APP distinguishes the construct from endogenously expressed APP,
CC and beneficially increases the resolution of APP-REP fragments
CC resulting from the proteolytic cleavage by secretase or other
CC amyloidogenic, BAP-generating cleavage events.

XX Sequence 8591 BP; 2225 A; 2038 C; 2247 G; 2081 T; 0 other;

Query Match 100.0%; Score 90; DB 18; Length 8591;
 Best Local Similarity 100.0%; Pred. No. 2.4e-14;
 Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGACGGCGGTGGCGGGCGGCGGAGAGCAAGGACGGCGGGGATCCCACTCGCACA 60
 |||||
 DB 2301 GGGAGACGGCGGTGGCGGGCGGCGGAGAGCAAGGACGGCGGGGATCCCACTCGCACA 2360
 |||||

QY 61 GCAGGCACTCGGTGGCGGGCGGCGGAGGTCG 90
 |||||

DB 2361 GCAGGCACTCGGTGGCGGGCGGCGGAGGTCG 2390
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 Job time : 236 secs